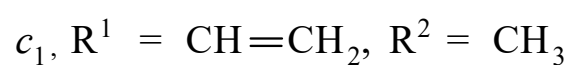
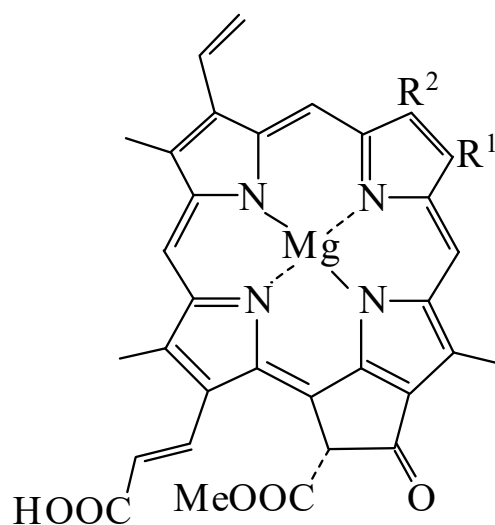




>>Entry Name: Chlorophyll c

ENTRY UNDER REVIEW

Synonym(s): Chlorophyllide c



Related CAS Registry Numbers(s): 1406-65-1

General Statement: In spite of their name these are porphyrins, not dihydro derivs. (or chlorins)

Biological Source: Widely distributed photosynthetic pigment in marine organisms, e.g. the diatom *Nitzschia closterium*

Physical Description: Cryst. (THF/petrol)

Other Data: λ_{max} 447, 578, 626 nm (Et₂O)

>>Variant: Chlorophyll c₁

CAS Registry Number: 18901-56-9

Molecular Formula: C₃₅H₂₈MgN₄O₅

Molecular Weight: 608.935

Accurate Mass: 608.191013

Percentage Composition: C 69.04%; H 4.63%; Mg 3.99%; N 9.20%; O 13.14%

>>Variant: Chlorophyll c₂

CAS Registry Number: 27736-03-4

Molecular Formula: C₃₅H₃₀MgN₄O₅

Molecular Weight: 610.951

Accurate Mass: 610.206663

Percentage Composition: C 68.81%; H 4.95%; Mg 3.98%; N 9.17%; O 13.09%

>>Variant: Chlorophyll c₃

CAS Registry Number: 111308-93-1

Molecular Formula: C₃₆H₂₈MgN₄O₇

Molecular Weight: 652.945

Accurate Mass: 652.180843

Percentage Composition: C 66.22%; H 4.32%; Mg 3.72%; N 8.58%; O 17.15%

References:

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Clezy, P.S. *et al.*, *Aust. J. Chem.*, 1978, **31**, 2491, (*synth*)
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